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1   Development of SNMP-XML translator and gateway for XML-based integrated network management
Jeong-Hyuk Yoon, Hong-Taek Ju, James W. Hong
July 2003 **International Journal of Network Management**, Volume 13 Issue 4

Full text available: 📄 pdf(251.82 KB)   Additional Information: full citation, abstract, references, index terms

> The research objective of our work is to develop a SNMP MIB to XML translation algorithm and to implement an SNMP-XML gateway using this algorithm. The gateway is used to transfer management information between an XML-based manager and SNMP-based agents. SNMP is widely used for Internet management, but SNMP is insufficient to manage continuously expanding networks because of constraints in scalability and efficiency. XML based network management architectures are newly proposed as alternatives t ...

2   XML dataspaces for mobile agent coordination
Giacomo Cabri, Letizia Leonardi, Franco Zambonelli
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: 📄 pdf(785.40 KB)   Additional Information: full citation, references, citings, index terms

3   Extending Java for high-level Web service construction
Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach
November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Full text available: 📄 pdf(947.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

> We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

4   Session 4: Behavior3D: an XML-based framework for 3D graphics behavior
Raimund Dachselt, Enrico Rukzio
March 2003 **Proceeding of the eighth international conference on 3D Web technology**

Full text available: Additional Information:

pdf(3.45 MB)   full citation, abstract, references, index terms

Success of 3D applications on the Web inherently depends on object behavior and interaction. Current Web3D formats often fall short in supporting behavior modeling. This paper introduces a flexible concept for declaratively modeling 3D object behaviors. Based on Extensible 3D (X3D) a node concept is suggested with object-oriented features such as inheritance, strong typing, and polymorphism. An XML-based language *Behavior3DNode* serves the interface definition of new nodes. Their implement ...

Keywords: Contigra, Extensible 3D (X3D), SMIL, XML-Schema, animation, behavior language, dynamic grammar, object behaviors

5 Prototype for wrapping and visualizing geo-referenced data in a distributed environment using XML technology
Jianting Zhang, Muhammad Javed, Amir Shaheen, Le Gruenwald
November 2000 **Proceedings of the eighth ACM international symposium on Advances in geographic information systems**
Full text available: pdf(618.21 KB)   Additional Information: full citation, abstract, citings, index terms

This paper proposes a prototype for integration and visualization of geo-referenced information (GRI) in a distributed environment in general and World Wide Web in particular. This prototype adopts a three-tier architecture and includes three main components: GRI wrapper for distributed GRI web sites, GRI integration mediator and client side visualization interface.

In this prototype, XML is used as a communication protocol between distributed web sites that provide GRI and the mediat ...

Keywords: XML, geo-referenced information, integration, visualization

6 Growing a GUI from an XML tree
Mark A. Boshart, Martha J. Kosa
June 2003 **ACM SIGCSE Bulletin , Proceedings of the 8th annual conference on Innovation and technology in computer science education**, Volume 35 Issue 3
Full text available: pdf(68.22 KB)   Additional Information: full citation, abstract, index terms

Computer science faculty in the current fast-paced computing environment must be very resourceful; they must constantly learn new topics and explain them to their undergraduate students (who *are familiar* with the *acronyms* and inquisitive about their meaning), while not letting these exciting new topics overshadow the fundamentals. They must analyze these new developments to see the fundamental concepts that ultimately serve as their basis. They must then determine how to integrate ...

7 Research sessions: new styles of XML: Data stream management for historical XML data
Sujoe Bose, Leonidas Fegaras
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: pdf(207.19 KB)   Additional Information: full citation, abstract, references

We are presenting a framework for continuous querying of time-varying streamed XML data. A continuous stream in our framework consists of a finite XML document followed by a continuous stream of updates. The unit of update is an XML fragment, which can relate to other fragments through system-generated unique IDs. The reconstruction of temporal data from continuous updates at a current time is never materialized and historical queries operate directly on the fragmented streams. We are incorporat ...

8 MOF to EMF: there and back again

Anna Gerber, Kerry Raymond
October 2003 **Proceedings of the 2003 OOPSLA workshop on eclipse technology
eXchange**
Full text available: 📄 pdf(102.02 KB)   Additional Information: full citation, abstract, references

The OMG's Meta-Object Facility (MOF) and the open source Eclipse Modelling Framework
(EMF) are two popular meta-modelling frameworks, created to meet similar (but not
identical) requirements. A means of translating MOF to EMF and vice versa is required to
enable the two communities to leverage one another's specifications. This paper explains the
relationship between the MOF and EMF meta-models and describes the XSLT-based
translation tool, E-MORF, to convert between MOF and EMF.

9 Posters: XJ: integration of XML processing into java
Matthew Harren, Mukund Raghavachari, Oded Shmueli, Michael G. Burke, Vivek Sarkar, Rajesh
Bordawekar
May 2004 **Proceedings of the 13th international World Wide Web conference on
Alternate track papers & posters**
Full text available: 📄 pdf(239.65 KB)   Additional Information: full citation, abstract, references, index terms

The increased importance of XML as a universal data representation format has led to
several proposals for enabling the development of applications that operate on XML data.
These proposals range from runtime API-based interfaces to XML-based programming
languages. The subject of this paper is XJ, a research language that proposes novel
mechanisms for the integration of XML as a first-class construct into Java™. The design
goals of XJ distinguish it from pastwork on integrating XML s ...

Keywords: Java, XML, data integration

10 Work in progress papers: JBTools: an experimental platform for the formal B method
J. C. Voisinet
June 2002 **Proceedings of the inaugural conference on the Principles and Practice of
programming, 2002 and Proceedings of the second workshop on
Intermediate representation engineering for virtual machines, 2002**
Full text available: 📄 pdf(210.32 KB)   Additional Information: full citation, abstract, references, index terms

The B method, developed by Jean-Raymond Abrial, is a formal method which enables an
incremental development process (also known as the refinement process). The distribution
of the B Method and the creation of experimental research tools face constraints of the
market for existing tools: cost, limited access, and limited number of systems (hardware
and software) requiring this kind of support. The purpose of the jBTools project is to solve
this problem by proposing an open-source platform. In thi ...

11 A generative approach to framework instantiation
Vaclav Cechticky, Philippe Chevalley, Alessandro Pasetti, Walter Schaufelberger
September 2003 **Proceedings of the second international conference on Generative
programming and component engineering**
Full text available: 📄 pdf(470.69 KB)   Additional Information: full citation, abstract, references, index terms,
review

This paper describes the <i>OBS Instantiation Environment</i>, which demonstrates a
generative approach to automating the instantiation process of a component-based
framework. The process is automated in the sense that designers configure and assemble
the framework components using intuitive visual operations in a GUI-based environment.
Their configuration actions are then used to automatically generate the framework
instantiation code. Generative techniques for framework instant ...

12 An environment for developing adaptive, multi-device user interfaces
John Grundy, Biao Yang
February 2003 **Proceedings of the Fourth Australian user interface conference on User**

interfaces 2003 - Volume 18
Full text available: pdf(784.56 KB)   Additional Information: full citation, abstract, references, index terms

There is a growing demand for the development of multi-device, adaptive user interfaces - interfaces that will run on and adapt to the characteristics of multiple display devices and networks as well as multiple users and user tasks. We describe a design and implementation environment for the development of such interfaces. This tool allows developers to specify their desired interfaces using an abstract set of screen element and layout constructs. It then generates a Java Server Page implementa ...

Keywords: adaptive user interfaces, mobile user interfaces, multi-device user interfaces, thin-client user interfaces, user interface design tools

13 Standardization in IT: Inter-organizational document exchange: facing the conversion problem with XML
Luis Martín Díaz, Erik Wüstner, Peter Buxmann
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(470.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

Information exchange processes are often characterized by the need of translating from one data format into another in order to achieve compatibility between information systems. A conversion problem often arises when exchanging files between applications of different software vendors or when incorporating legacy business data into new standard software. In this paper we want to survey the conversion problem in the field of multi-organizational networks, since participants often use different da ...

Keywords: Java, XML, conversion problem, information systems, inter-organizational document exchange, standardization, supply chain management

14 Application of XML tools for enterprise-wide RBAC implementation tasks
Ramaswamy Chandramouli
July 2000 **Proceedings of the fifth ACM workshop on Role-based access control**

Full text available: pdf(66.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

The use of Extensible Markup Language (XML) and its associated APIs, for information modeling and information interchange applications is being actively explored by the reseach community. In this paper we develop an XML Document Type Definition (DTD) for representing the schema of a Role-based Access Control (RBAC) Model and a conforming XML document containing the actual RBAC-based access control data for a commercial banking application. Based on this DTD, the XML document and the methods ...

15 Migration of legacy web applications to enterprise Java™ environments net.data® to JSP™ transformation
Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies conference on Collaborative research**
Full text available: pdf(165.69 KB)   Additional Information: full citation, abstract, references, index terms

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java
Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

16 CDuce: an XML-centric general-purpose language

Véronique Benzaken, Giuseppe Castagna, Alain Frisch

August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming,** Volume 38 Issue 9

Full text available: pdf(242.16 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present the functional language CDuce, discuss some design issues, and show its adequacy for working with XML documents. Distinctive features of CDuce are a powerful pattern matching, first class functions, overloaded functions, a very rich type system (arrows, sequences, pairs, records, intersections, unions, differences), precise type inference for patterns and error localization, and a natural interpretation of types as sets of values. We also outline some important implementation issue ...

Keywords: *CDuce, XML, XML-processing, type systems*

17 XML data modeling and storage: *XVerter.* querying XML data with OR-DBMS

Humberto Vieira, Gabriela Ruberg, Marta Mattoso

November 2003 **Proceedings of the fifth ACM international workshop on Web information and data management**

Full text available: pdf(277.96 KB)   Additional Information: full citation, abstract, references, index terms

Storage techniques and queries over XML databases are being widely studied. Most works store XML documents in traditional DBMSs in order to take advantage of a well established technology and also to store both structured data and XML data within a single system. This work proposes a translation mechanism to execute queries expressed on XQuery on top of XML documents that are stored in an object DBMS using the DOM implementation in disk. Rules for automatic translation from XQuery to SQL3 are pr ...

Keywords: DOM, SQL3, XML, XQuery, XSLT, object DBMS

18 Requirements for and evaluation of RMI protocols for scientific computing

Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley, Dennis Gannon

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(306.83 KB)   Additional Information: full citation, abstract, references, citings, index terms
Publisher Site

Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component architectures is based on Remote Method Invocation (RMI) protocols that allow one software component to invoke the functionality of another. Examples include Java remote method invocation (Java RMI) and the new Simple Object Access Protocol (SOAP). SOAP has the advantage that many programming languages and component ...

Keywords: Distributed computing, software component systems, communicationprotocols, RMI,Java, SOAP

19 Special section on advanced XML data processing: A general technique for querying XML documents using a relational database system

Jayavel Shanmugasundaram, Eugene Shekita, Jerry Kiernan, Rajasekar Krishnamurthy, Efstratios Viglas, Jeffrey Naughton, Igor Tatarinov

September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3

Full text available: pdf(645.23 KB)   Additional Information: full citation, abstract, references, citings, index terms

There has been recent interest in using relational database systems to store and query XML documents. Each of the techniques proposed in this context works by (a) creating tables for the purpose of storing XML documents (also called *relational schema generation*), (b) storing XML documents by shredding them into rows in the created tables, and (c) converting queries over XML documents into SQL queries over the created tables. Since relational schema generation is a physical database design ...

20 A scalable formal method for design and automatic checking of user interfaces

Jean Berstel, Stefano Crespi Reghizzi, Gilles Roussel, Pierluigi San Pietro
July 2001 **Proceedings of the 23rd international conference on Software engineering**

Full text available: pdf(237.48 KB)   Additional Information: full citation, abstract, references, citings, index terms
Publisher Site

The paper addresses the formal specification, design and implementation of the behavioral component of graphical user interfaces. Dialogs are specified by means of modular, communicating grammars called VEG (Visual Event Grammars), which extend traditional BNF grammars to make the modeling of dialogs more convenient.

A VEG specification is independent of the actual layout of the GUI, but it can be easily integrated with various layout design toolkits. The specification may b ...

Keywords: *GUI design, applications of model checking, formal methods, human-computer interaction*

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